

Abstract of the Disclosure

A controlled modulus fusing-station member inclusive of a durable, tough, elastically deformable layer incorporating hollow flexible filler particles. The elastically deformable layer is preferably a single layer on a substrate, the substrate preferably a core member of a fuser roller or a pressure roller. The elastically deformable layer is made from a dry formulation inclusive of: a fluoro-thermoplastic polymer powder; microspheres in the form of unexpanded microspheres or expanded microballoons; and solid filler particles including strength-enhancing filler particles and thermal-conductivity-enhancing filler particles. The dry formulation can be thermally cured or electron-beam cured. Preferably, the dry formulation is thermally cured and further includes a curing catalyst, preferably a peroxide catalyst. Alternatively, the curing catalyst can be a bisphenol residue.